	Application No.	Applicant(s)
Notice of Allowability	09/886,577	ROY, RICHARD S.
	Examiner	Art Únit
	Paul A Baker	2188
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commining IGHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>after final filed 22 Sep</u>	otember 2004.	
2. The allowed claim(s) is/are <u>1-3,6-13 and 15-20</u> .		
3. \boxtimes The drawings filed on <u>21 June 2001</u> are accepted by the E	xaminer.	
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN 	e been received. e been received in Application cuments have been received of this communication to file	on No d in this national stage application from the
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXA es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the sheet	son's Patent Drawing Review s Amendment / Comment or .84(c)) should be written on ti	r in the Office action of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATI FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 98), 7. ☐ Examiner's	oformal Patent Application (PTO-152) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance

DETAILED ACTION

Allowable Subject Matter

Claims 1-3,6-13 and 15-20 are allowed.

The following is an examiner's statement of reasons for allowance:

In regards to claim 1, none of the prior art of record discloses three levels of memory, each possessing data in and data out buffer blocks and a multiplexing circuit capable of tying the third level DOUT buffer block to the DIN buffer block of the first and second levels of memory for selectively loading data in a manner which substantially simultaneous relative to accessing the data in the third level. Specifically the examiner was unable to find in the prior art of record the structure claimed by claim 1 where data from the third level memory could be loaded into the first level memory (bypassing second level memory) within a clock cycle. Therefore claim 1 is found allowable over the prior art of record, given the claimed structure and method of operation.

Claims 2-3 and 6-10 are allowable as dependent upon claim 1.

The phrase "substantially simultaneous" had been deemed definite, since this phrase is given in the context of memory access time. Specifically "substantially simultaneous" has been interpreted as meaning "an operation which occurs in less than one memory clock cycle from the triggering event". In this context, the loading from 3rd

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level DOUT into either the 1st or 2nd DIN occurs less than one memory cycle after the accessing of the data in the third level memory.

In regards to claim 11, none of the prior art of record discloses the loading operation into the first level memory is triggered by an address calculated by an seperate address logic circuit in combination of the other specified claim limitations.

Claims 12,13,15-20 are allowable as dependent upon claim 11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul A Baker whose telephone number is (571)272-24203. The examiner can normally be reached on M-F 10am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on (571)272-4210. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PB

MANO PADMANABHAN SUPERVISORY PATENT EXAMINER

Mars Ramanashan